## INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/05145

A. CLASSII Int.C	FICATION OF SUBJECT MATTER 11 H01J27/02, 37/08, 27/20,	27/08, 27/24, 27/26	
According to	International Patent Classification (IPC) or to both n	ational classification and IPC	
	SEARCHED		
Minimum doc Int.C	cumentation searched (classification system followed 17 H01J27/00-27/26, 37/08	by classification symbols)	
Jitsuv	on searched other than minimum documentation to the Yo Shinan Koho 1922–1996  Jitsuyo Shinan Koho 1971–2003	Toroku Jitsuyo Shinan Koho	1994-2003
	ta base consulted during the international search (nam		rch terms used)
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C. DOCUM	IENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
X Y	JP 4-196032 A (Hitachi, Ltd. 15 July, 1992 (15.07.92), Full text; all drawings (Family: none)	.),	1,2,5,11 3,4,6-9
X Y	JP 11-307002 A (Kabushiki Ka Kenkyusho), 05 November, 1999 (05.11.99) Full text; all drawings (Family: none)	aisha Tsukuba Kurasuta ,	1,2,5,11 3,4,6-9
Y	JP 64-39370 A (NEC Corp.), 09 February, 1989 (09.02.89) Page 1; lower right column (Family: none)		3
× Further	documents are listed in the continuation of Box C.	See patent family annex.	
* Special ca document considerec "E" carlier document cited to es special rea document means "P" document than the p	Special categories of cited documents:  document defining the general state of the art which is not considered to be of particular relevance carlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to considered to be of particular relevance; the claimed invention cannot date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O'' document referring to an oral disclosure, use, exhibition or other means  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot considered novel or cannot be considered to involve an invention cannot considered to involve an invention considered to involve an inventio		e application but cited to rlying the invention aimed invention cannot be ad to involve an inventive aimed invention cannot be when the document is documents, such skilled in the art
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International application No.
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ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	JP 9-63494 A (Kabushiki Kaisha Nippon Seikosho), 07 March, 1997 (07.03.97), Par. No. [0002] (Family: none)	4,7
Y	JP 11-111185 A (Director General, Agency of Industrial Science and Technology), 23 April, 1999 (23.04.99), Full text; all drawings & US 6169288 B1	4,9
Y	JP 7-296756 A (Hitachi, Ltd.), 10 November, 1995 (10.11.95), Par. Nos. [0006], [0007], [0016] (Family: none)	6,8
A	JP 2002-56803 A (Agilent Technologies Inc.), 22 February, 2002 (22.02.02), Par. Nos. [0003] to [0007] & EP 1178513 A2	1-11
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